

# STN Columbus

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks  
 (ROSPATENT) added to list of core patent offices covered  
 NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status  
 data from INPADOC  
 NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available  
 NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded  
 NEWS 7 MAR 02 GBFULL: New full-text patent database on STN  
 NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
 NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
 NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced  
 NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
 NEWS 12 MAR 22 PATDPASPC - New patent database available  
 NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
 NEWS 14 APR 04 EPFULL enhanced with additional patent information and new  
 fields  
 NEWS 15 APR 04 EMBASE - Database reloaded and enhanced  
 NEWS 16 APR 18 New CAS Information Use Policies available online  
  
 NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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FILE 'HOME' ENTERED AT 08:30:29 ON 19 APR 2005

=> fil ca; e us-20050069798/pn

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CA' ENTERED AT 08:30:44 ON 19 APR 2005

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FILE COVERS 1907 - 14 Apr 2005 VOL 142 ISS 17  
FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

E1	1	US2005069789/PN
E2	1	US2005069796/PN
E3	0 -->	US2005069798/PN
E4	1	US2005069808/PN
E5	1	US2005069815/PN
E6	1	US2005069816/PN
E7	3	US2005069823/PN
E8	2	US2005069826/PN
E9	1	US2005069827/PN
E10	3	US2005069828/PN
E11	2	US2005069836/PN
E12	1	US2005069861/PN

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	0.64

FILE 'STNGUIDE' ENTERED AT 08:31:02 ON 19 APR 2005  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Apr 15, 2005 (20050415/UP).

=> fil reg; e 86-74-8

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.24	0.88

FILE 'REGISTRY' ENTERED AT 08:33:13 ON 19 APR 2005  
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STRUCTURE FILE UPDATES: 18 APR 2005 HIGHEST RN 848724-42-5  
DICTIONARY FILE UPDATES: 18 APR 2005 HIGHEST RN 848724-42-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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E1      1      86-72-6/RN
E2      1      86-73-7/RN
E3      1 --> 86-74-8/RN
E4      1      86-75-9/RN
E5      1      86-76-0/RN
E6      1      86-77-1/RN
E7      1      86-78-2/RN
E8      1      86-79-3/RN
E9      1      86-80-6/RN
E10     1      86-81-7/RN
E11     1      86-82-8/RN
E12     1      86-83-9/RN
```

```
=> s.e3; d.rsd
L1      1 86-74-8/RN
```

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

#### Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C4N-C6-C6	NC4-C6-C6	5-6-6	C12N	1839.22.20	1

```
=> e 86-73-7
E1      1      86-71-5/RN
E2      1      86-72-6/RN
E3      1 --> 86-73-7/RN
E4      1      86-74-8/RN
E5      1      86-75-9/RN
E6      1      86-76-0/RN
E7      1      86-77-1/RN
E8      1      86-78-2/RN
E9      1      86-79-3/RN
```

# STN Columbus

E10 1 86-80-6/RN  
E11 1 86-81-7/RN  
E12 1 86-82-8/RN

=> s e3; d rsd

L2 1 86-73-7/RN

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

## Ring System Data

Elemental Analysis	Elemental Sequence	Size of the Rings	Ring System Formula	Ring Identifier	RID Occurrence
EA	ES	SZ	RF	RID	Count
C5-C6-C6	C5-C6-C6	5-6-6	C13	1839.6.36	1

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7946471 2/RID.CNT

44853 1839.22/RID

L3 3603 2 1839.22/RID

(2/RID.CNT (T) 1839.22/RID)

=> s 2 1839.6/rid

7946471 2/RID.CNT

93511 1839.6/RID

L4 5376 2 1839.6/RID

(2/RID.CNT (T) 1839.6/RID)

=> s >=2 1839.22/rid

10447424 RID.CNT >= 2

44853 1839.22/RID

L5 4411 >=2 1839.22/RID

(RID.CNT >= 2 (T) 1839.22/RID)

=> s >=2 1839.6/rid

10447424 RID.CNT >= 2

93511 1839.6/RID

L6 6677 >=2 1839.6/RID

(RID.CNT >= 2 (T) 1839.6/RID)

=> s l5 and l6

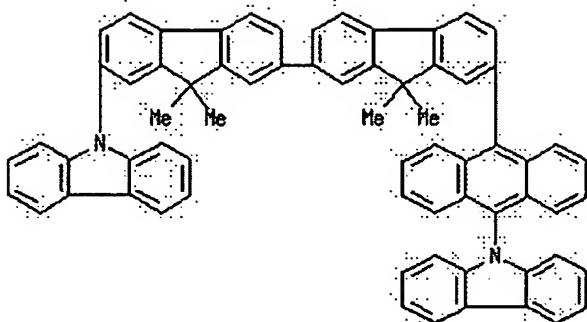
L7 37 L5 AND L6

=> d scan

L7 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 9H-Carbazole, 9-[7'-(10-(9H-carbazol-9-yl)-9-anthracenyl)-9,9,9',9'-tetramethyl[2,2'-bi-9H-fluoren]-7-yl]- (9CI)

MF C68 H48 N2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Poly[9,9-bis[[3,5-bis[4-(9H-carbazol-9-yl)butoxy]phenyl]methyl]-9',9'-  
 dioctyl[2,2'-bi-9H-fluorene]-7,7'-diyl] (9CI)  
 MF (C120 H120 N4 O4)n  
 CI PMS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

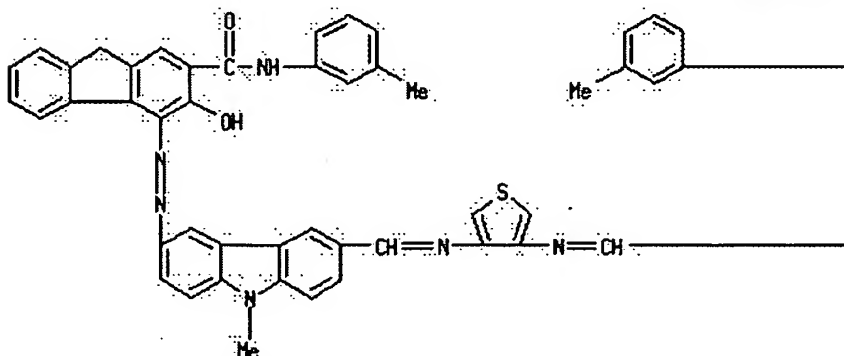
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

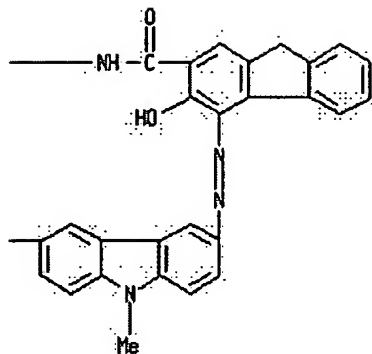
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L7 37 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-2-carboxamide, 4,4'-[3,4-thiophenediylbis[nitrilomethylidyne(9-  
 methyl-9H-carbazole-6,3-diyl)azo]]bis[3-hydroxy-N-(3-methylphenyl)- (9CI)  
 MF C74 H54 N10 O4 S

PAGE 1-A





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 08:30:29 ON 19 APR 2005)

FILE 'CA' ENTERED AT 08:30:44 ON 19 APR 2005  
E US-20050069798/PN

FILE 'STNGUIDE' ENTERED AT 08:31:02 ON 19 APR 2005

FILE 'REGISTRY' ENTERED AT 08:33:13 ON 19 APR 2005  
E 86-74-8

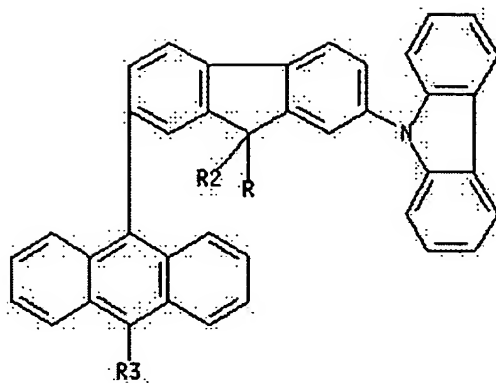
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E 86-73-7  
L2 1 S E3  
L3 3603 S 2 1839.22/RID  
L4 5376 S 2 1839.6/RID  
L5 4411 S >=2 1839.22/RID  
L6 6677 S >=2 1839.6/RID  
L7 37 S L5 AND L6

=> s 17 not pms/ci  
1060956 PMS/CI  
L8 34 L7 NOT PMS/CI

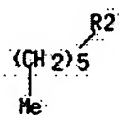
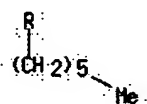
=> d scan

L8 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dihexyl-9H-fluorene-7,2-diyl)]bis- (9CI)  
MF C88 H88 N2

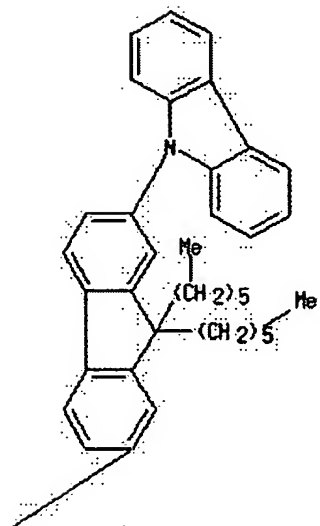
PAGE 1-A



PAGE 2-A



PAGE 3-A



PAGE 4-A

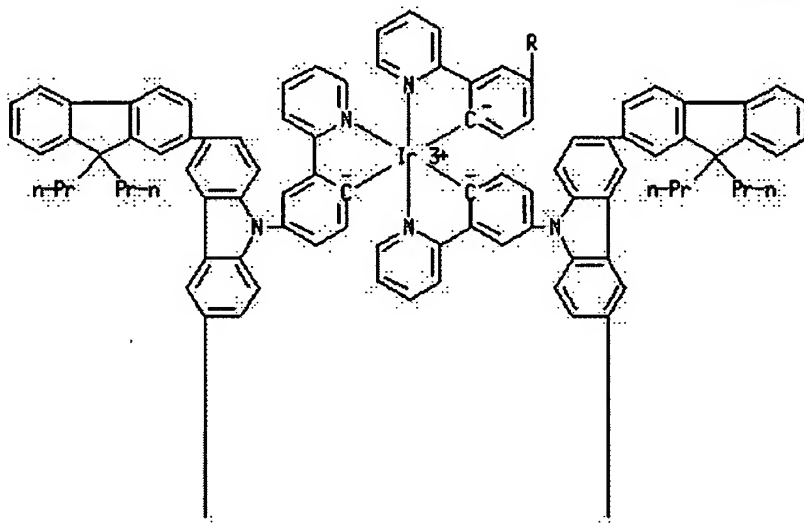
R3:

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

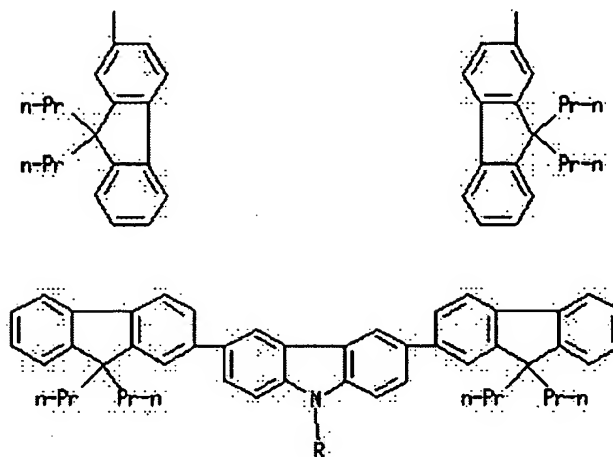
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Iridium, tris[4-[3,6-bis(9,9-dipropyl-9H-fluoren-2-yl)-9H-carbazol-9-yl]-2-(2-pyridinyl-κN)phenyl-κC]-, (OC-6-22)- (9CI)  
 MF C183 H165 Ir N6  
 CI CCS

PAGE 1-A



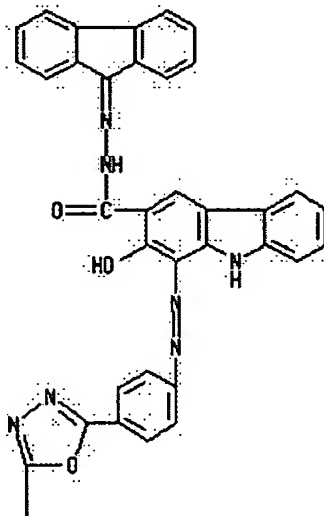


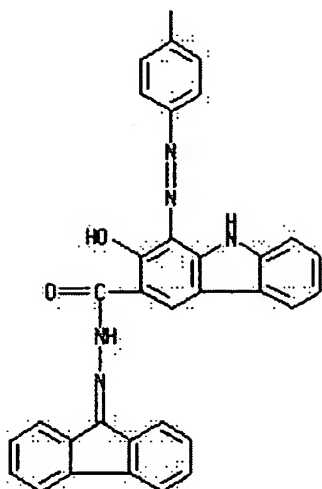


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

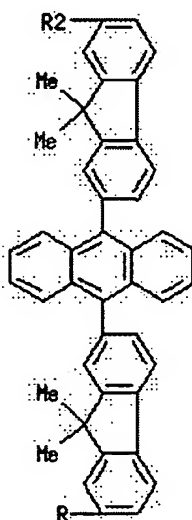
L8 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Carbazole-3-carboxylic acid, 1,1'-[1,3,4-oxadiazole-2,5-diylbis(4,1-phenyleneazo)]bis[2-hydroxy-, bis(9H-fluoren-9-ylidenehydrazide) (9CI)  
 MF C66 H40 N12 O5

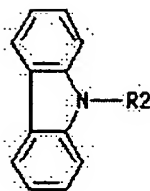
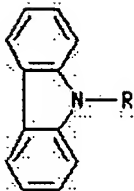




HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dimethyl-9H-fluorene-7,2-diyl)]bis- (9CI)  
 MF C68 H48 N2

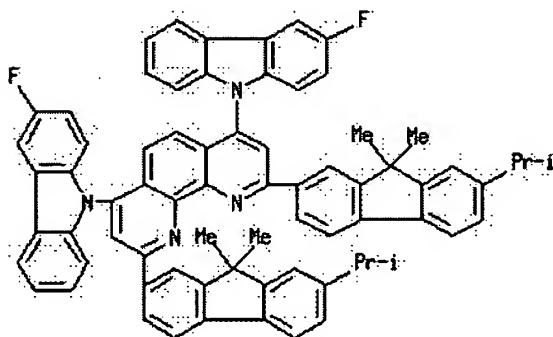




\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L8 34 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 1,10-Phenanthroline, 2,9-bis[9,9-dimethyl-7-(1-methylethyl)-9H-fluoren-2-yl]-4,7-bis(3-fluoro-9H-carbazol-9-yl)- (9CI)  
 MF C72 H56 F2 N4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 08:30:29 ON 19 APR 2005)

FILE 'CA' ENTERED AT 08:30:44 ON 19 APR 2005  
 E US-20050069798/PN

FILE 'STNGUIDE' ENTERED AT 08:31:02 ON 19 APR 2005

FILE 'REGISTRY' ENTERED AT 08:33:13 ON 19 APR 2005

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          E 86-74-8
L1        1 S E3
          E 86-73-7
L2        1 S E3
L3        3603 S 2 1839.22/RID
L4        5376 S 2 1839.6/RID
L5        4411 S >=2 1839.22/RID
L6        6677 S >=2 1839.6/RID
L7        37 S L5 AND L6
L8        34 S L7 NOT PMS/CI

```

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	30.66	31.54

FILE 'STNGUIDE' ENTERED AT 08:42:34 ON 19 APR 2005  
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FILE CONTAINS CURRENT INFORMATION.  
 LAST RELOADED: Apr 15, 2005 (20050415/UP).

=> fil reg; s l8 6-/n

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.24	31.78

FILE 'REGISTRY' ENTERED AT 08:44:46 ON 19 APR 2005  
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STRUCTURE FILE UPDATES: 18 APR 2005 HIGHEST RN 848724-42-5  
 DICTIONARY FILE UPDATES: 18 APR 2005 HIGHEST RN 848724-42-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TS/CA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

```

*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****

```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

MISSING OPERATOR

=> s 18 6-20/n

MISSING OPERATOR

=> d his

(FILE 'HOME' ENTERED AT 08:30:29 ON 19 APR 2005)

FILE 'CA' ENTERED AT 08:30:44 ON 19 APR 2005

E US-20050069798/PN

FILE 'STNGUIDE' ENTERED AT 08:31:02 ON 19 APR 2005

FILE 'REGISTRY' ENTERED AT 08:33:13 ON 19 APR 2005

E 86-74-8

L1 . 1 S E3

E 86-73-7

L2 . 1 S E3

L3 3603 S 2 1839.22/RID

L4 5376 S 2 1839.6/RID

L5 4411 S >=2 1839.22/RID

L6 6677 S >=2 1839.6/RID

L7 37 S L5 AND L6

L8 34 S L7 NOT PMS/CI

FILE 'STNGUIDE' ENTERED AT 08:42:34 ON 19 APR 2005

FILE 'REGISTRY' ENTERED AT 08:44:46 ON 19 APR 2005

=> s 13 and 14 not pms/ci

1060956 PMS/CI

L9 31 L3 AND L4 NOT PMS/CI

=> fil ca; s 18

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

5.46

37.24

FILE 'CA' ENTERED AT 08:46:04 ON 19 APR 2005

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FILE COVERS 1907 - 14 Apr 2005 VOL 142 ISS 17

FILE LAST UPDATED: 14 Apr 2005 (20050414/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L10 18 L8

=> d hitstr 1-18

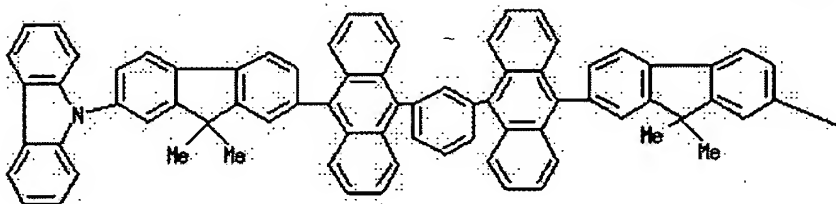
L10 ANSWER 1 OF 18 CA COPYRIGHT 2005 ACS on STN  
IT 817642-23-2P

RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (anthracene compd., EL or hole-injection and -transport layer; org. EL devices with improved durability using anthracene compds.)

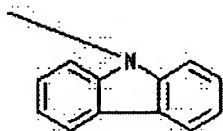
RN 817642-23-2 CA

CN 9H-Carbazole, 9,9'-[1,3-phenylenebis[10,9-anthracenediyl(9,9-dimethyl-9H-fluorene-7,2-diyl)]]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L10 ANSWER 2 OF 18 CA COPYRIGHT 2005 ACS on STN

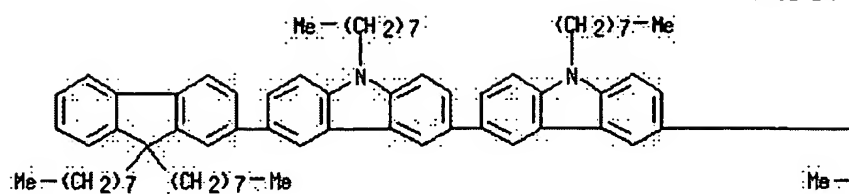
IT 746651-60-5P 746651-61-6P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (oligomeric or polymeric carbazole compds. and luminescent compns. contg. them and electroluminescent devices using them)

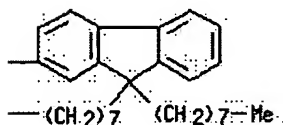
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PAGE 1-A



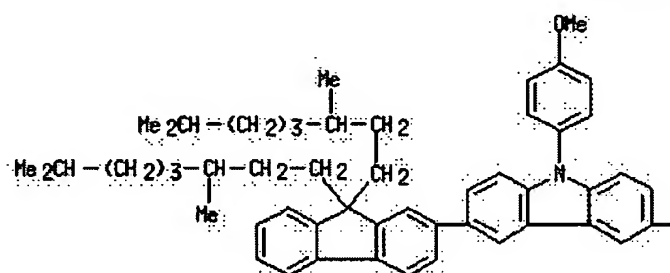
PAGE 1-B



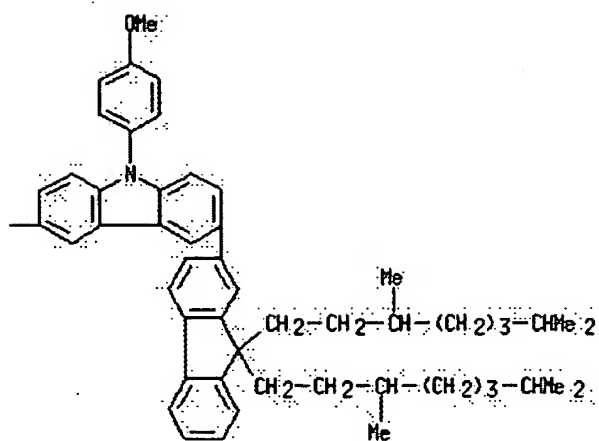
RN 746651-61-6 CA

CN 3,3'-Bi-9H-carbazole, 6,6'-bis[9,9-bis(3,7-dimethyloctyl)-9H-fluoren-2-yl]-  
9,9'-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L10 ANSWER 3 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 746651-60-5P 746651-61-6P

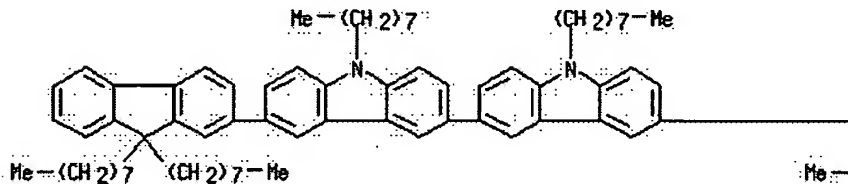
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oligomeric or polymeric carbazole compds. and luminescent compns. contg. them and electroluminescent devices using them)

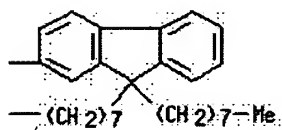
RN 746651-60-5 CA

CN 3,3'-Bi-9H-carbazole, 6,6'-bis(9,9-dioctyl-9H-fluoren-2-yl)-9,9'-dioctyl-(9CI) (CA INDEX NAME)

PAGE 1-A



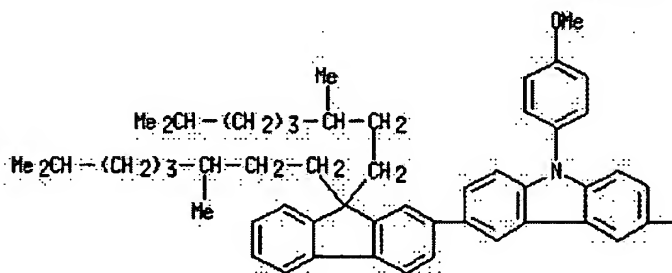
PAGE 1-B



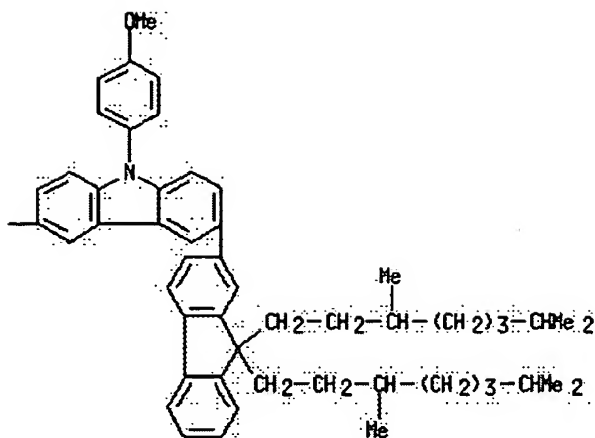
RN 746651-61-6 CA

CN 3,3'-Bi-9H-carbazole, 6,6'-bis[9,9-bis(3,7-dimethyloctyl)-9H-fluoren-2-yl]-9,9'-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A







L10 ANSWER 4 OF 18 CA COPYRIGHT 2005 ACS on STN

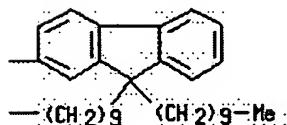
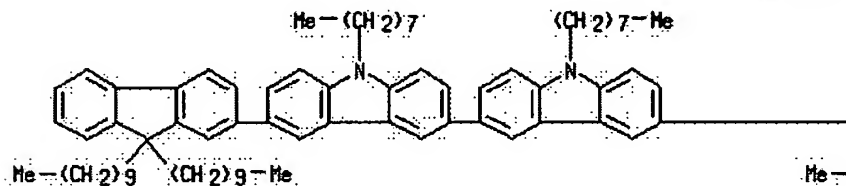
IT 726169-84-2

RL: PRP (Properties)

(tuning HOMO level without influencing triplet energy in small mols.  
for carbazole compds. as host materials for triplet emitters in org.  
light-emitting diodes)

RN 726169-84-2 CA

CN 3,3'-Bi-9H-carbazole, 6,6'-bis(9,9-didecyl-9H-fluoren-2-yl)-9,9'-dioctyl-  
(9CI) (CA INDEX NAME)



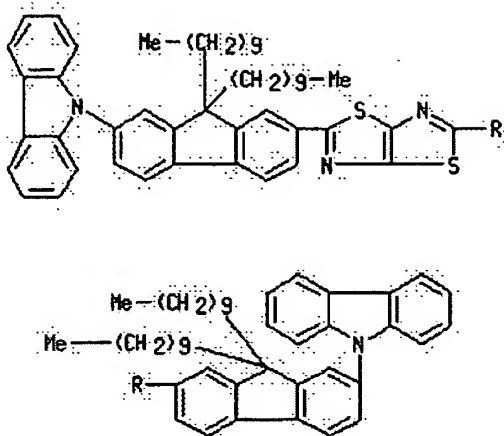
L10 ANSWER 5 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 685531-19-5P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
use); PREP (Preparation); USES (Uses)  
(chromophores with high two-photon absorptions)

RN 685531-19-5 CA

CN 9H-Carbazole, 9,9'-[thiazolo[5,4-d]thiazole-2,5-diylbis(9,9-didecyl-9H-  
fluoren-7,2-diyl)]bis- (9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 18 CA COPYRIGHT 2005 ACS on STN

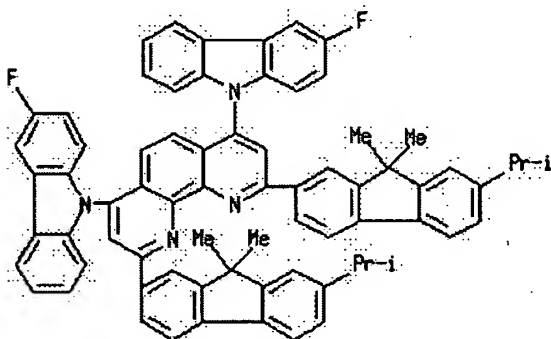
IT 676542-69-1

RL: DEV (Device component use); USES (Uses)

(phenanthroline derivs. and org. light-emitting devices using them)

RN 676542-69-1 CA

CN 1,10-Phenanthroline, 2,9-bis[9,9-dimethyl-7-(1-methylethyl)-9H-fluoren-2-yl]-4,7-bis(3-fluoro-9H-carbazol-9-yl)- (9CI) (CA INDEX NAME)



L10 ANSWER 7 OF 18 CA COPYRIGHT 2005 ACS on STN

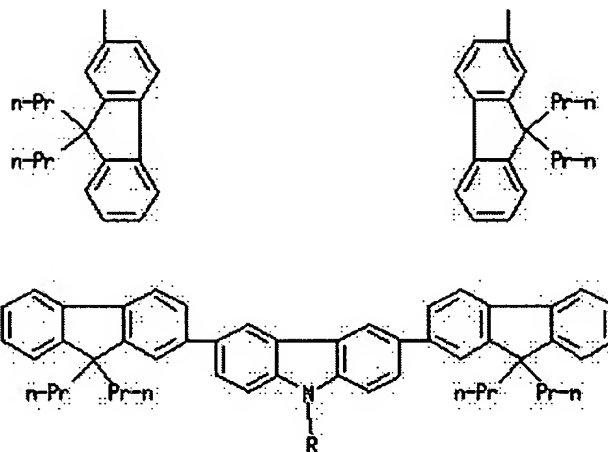
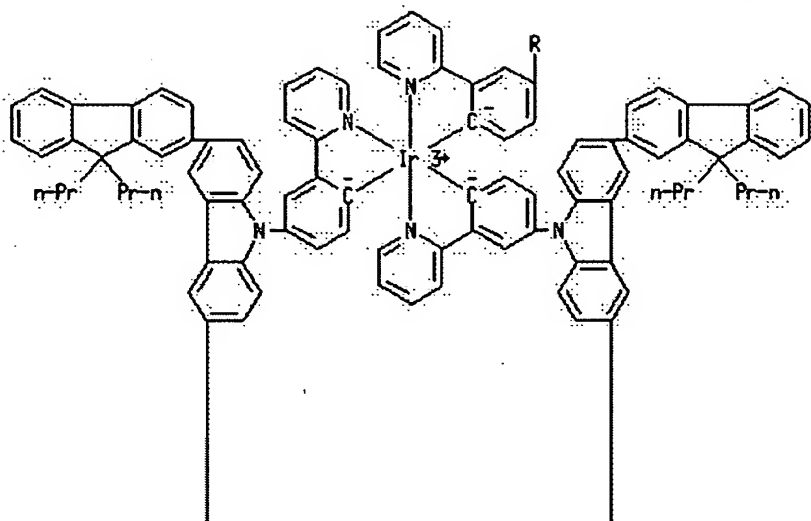
IT 676992-45-3P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. and uses of fluorene-contg. iridium dendrimers useful in photovoltaic device)

RN 676992-45-3 CA

CN Iridium, tris[4-[3,6-bis(9,9-dipropyl-9H-fluoren-2-yl)-9H-carbazol-9-yl]-2-(2-pyridinyl-kN)phenyl-kC]-, (OC-6-22)- (9CI) (CA INDEX NAME)



L10 ANSWER 8 OF 18 CA COPYRIGHT 2005 ACS on STN

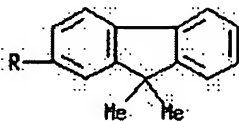
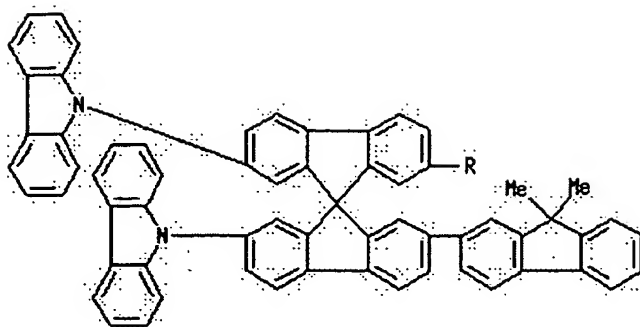
IT 669077-82-1 669078-07-3

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(spirobifluorene dyes and org. electroluminescent devices using them)

RN 669077-82-1 CA

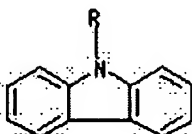
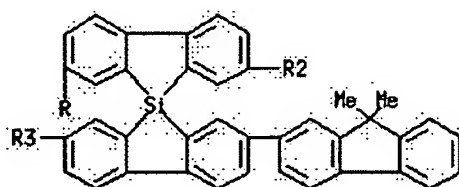
CN 9H-Carbazole, 9,9'-[7,7'-bis(9,9-dimethyl-9H-fluoren-2-yl)-9,9'-spirobi[9H-fluorene]-2,2'-diyl]bis- (9CI) (CA INDEX NAME)

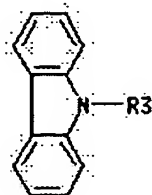
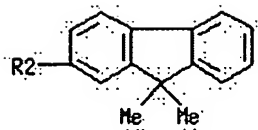


RN 669078-07-3 CA

CN 9H-Carbazole, 9,9'-[7,7'-(9,9-dimethyl-9H-fluorene-2-yl)-9,9'-spirobi[9H-9-silafluorene]-2,2'-diyl]bis- (9CI) (CA INDEX NAME)

PAGE 1-A





L10 ANSWER 9 OF 18 CA COPYRIGHT 2005 ACS on STN

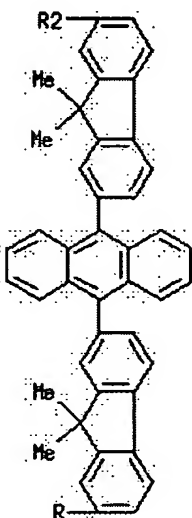
IT 522615-57-2

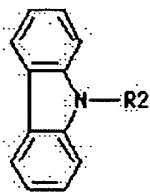
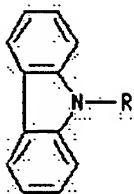
RL: DEV (Device component use); USES (Uses)

(org. electroluminescent device comprising coupled anthracene fluorene deriv. and with amino-substituted hydrocarbon)

RN 522615-57-2 CA

CN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dimethyl-9H-fluorene-7,2-diyl)]bis- (9CI) (CA INDEX NAME)





L10 ANSWER 10 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 522615-57-2P 522615-58-3P 522615-59-4P

522615-61-8P 522615-63-0P 522615-73-2P

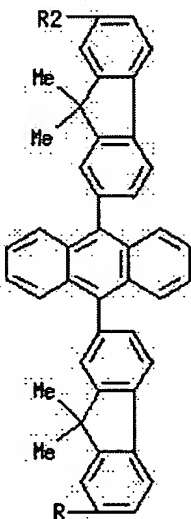
522615-74-3P 522615-85-6P 522615-93-6P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP  
(Preparation); USES (Uses)

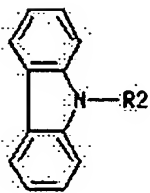
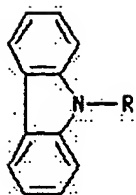
(spirocyclic compds. contg. direct bond between anthracene and fluorene  
rings for org. LED of high luminescent efficiency)

RN 522615-57-2 CA

CN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dimethyl-9H-fluorene-7,2-  
diyl)]bis- (9CI) (CA INDEX NAME)



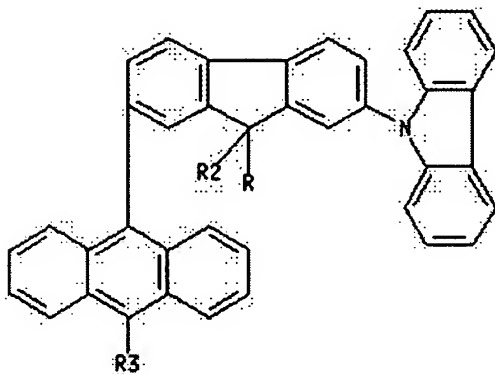
PAGE 2-A



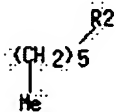
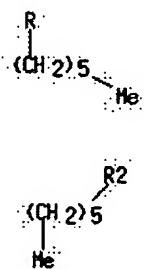
RN 522615-58-3 CA

CN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dihexyl-9H-fluorene-7,2-diyl)]bis- (9CI) (CA INDEX NAME)

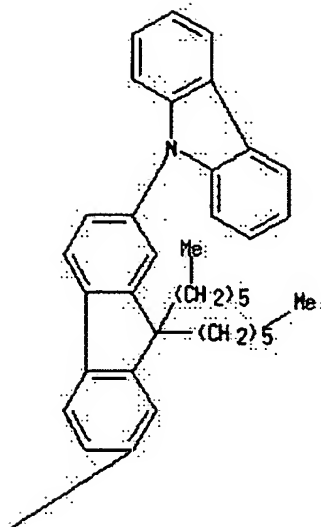
PAGE 1-A



PAGE 2-A



PAGE 3-A

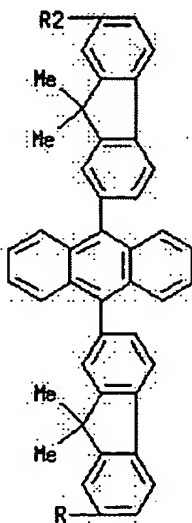


R3

PAGE 4-A

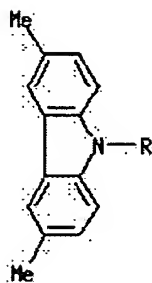
RN 522615-59-4 CA  
 CN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-dimethyl-9H-fluorene-7,2-diyl)]bis[3,6-dimethyl- (9CI) (CA INDEX NAME)

PAGE 1-A

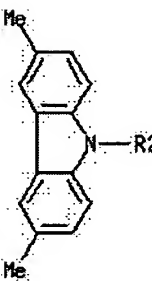




PAGE 2-A



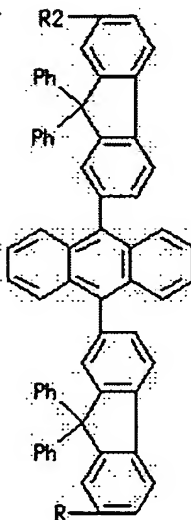
PAGE 3-A



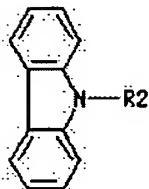
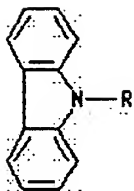
RN 522615-61-8 CA

CN 9H-Carbazole, 9,9'-[9,10-anthracenediylbis(9,9-diphenyl-9H-fluorene-7,2-diyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

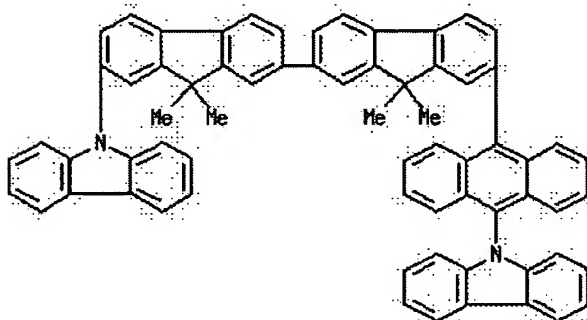


PAGE 2-A



RN 522615-63-0 CA

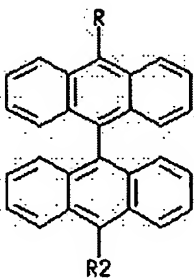
CN 9H-Carbazole, 9-[7'-[10-(9H-carbazol-9-yl)-9-anthracenyl]-9,9,9',9'-tetramethyl[2,2'-bi-9H-fluorene]-7-yl]- (9CI) (CA INDEX NAME)



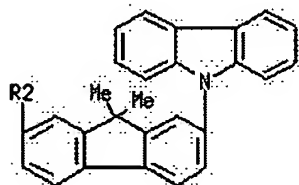
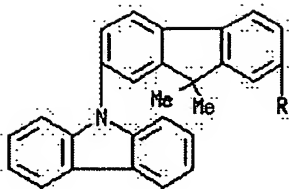
RN 522615-73-2 CA

CN 9H-Carbazole, 9,9'-[[9,9'-bianthracene]-10,10'-diylbis(9,9-dimethyl-9H-fluorene-7,2-diyl)]bis- (9CI) (CA INDEX NAME)

PAGE 1-A

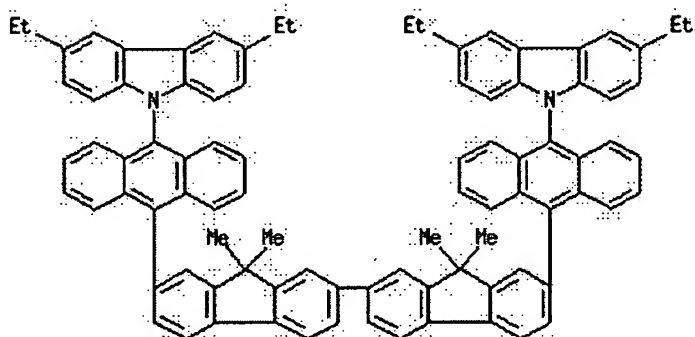


PAGE 2-A



RN 522615-74-3 CA

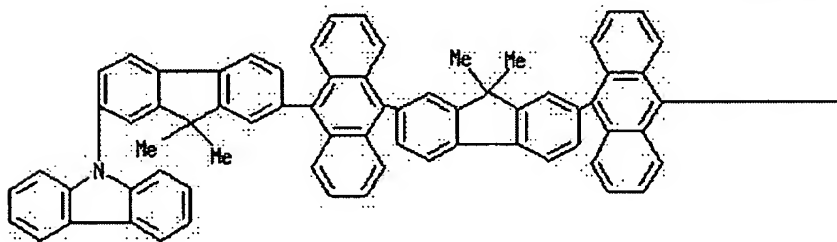
CN 9H-Carbazole, 9,9'-[(9,9,9',9'-tetramethyl[2,2'-bi-9H-fluorene]-7,7'-diyl)di-10,9-anthracenediyl]bis[3,6-diethyl- (9CI) (CA INDEX NAME)

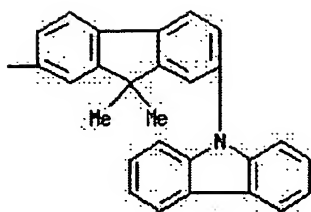


RN 522615-85-6 CA

CN 9H-Carbazole, 9,9'-[(9,9-dimethyl-9H-fluorene-2,7-diyl)bis[10,9-anthracenediyl(9,9-dimethyl-9H-fluorene-7,2-diyl)]]bis- (9CI) (CA INDEX NAME)

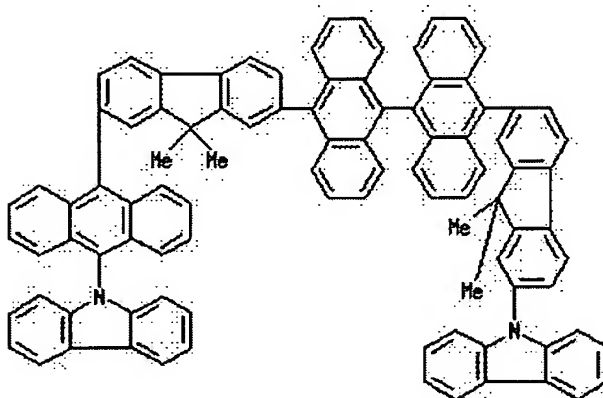
PAGE 1-A





RN 522615-93-6 CA

CN 9H-Carbazole, 9-[7-[10'-[7-[10-(9H-carbazol-9-yl)-9-anthracenyl]-9,9-dimethyl-9H-fluoren-2-yl][9,9'-bianthracen]-10-yl]-9,9-dimethyl-9H-fluoren-2-yl]- (9CI) (CA INDEX NAME)



L10 ANSWER 11 OF 18 CA COPYRIGHT 2005 ACS on STN

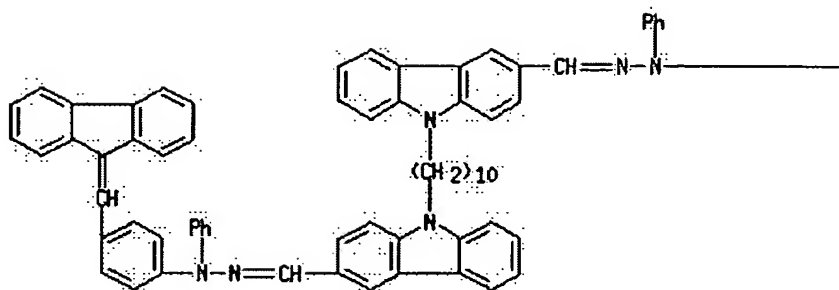
IT 503543-01-9P 503543-02-0P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(charge transport compd. for electrophotog. organo photoreceptors)

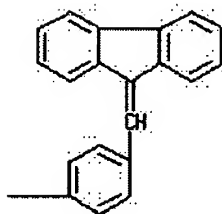
RN 503543-01-9 CA

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,10-decanediyl)bis-, bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A



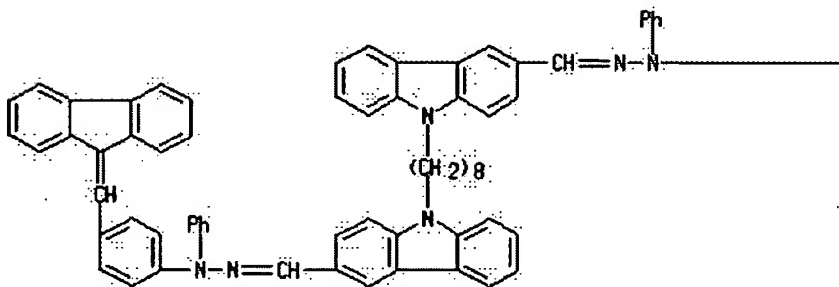
PAGE 1-B



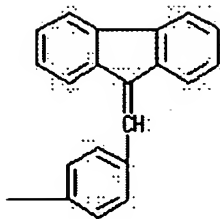
RN 503543-02-0 CA

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,8-octanediy)bis-,  
bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA  
INDEX NAME)

PAGE 1-A



PAGE 1-B



L10 ANSWER 12 OF 18 CA COPYRIGHT 2005 ACS on STN

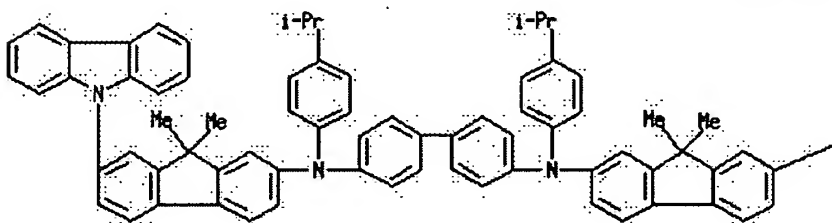
IT 354987-52-3P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (amine compd. for org. electroluminescent device showing longer luminescent lifetime and excellent durability)

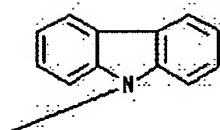
RN 354987-52-3 CA

CN [1,1'-Biphenyl]-4,4'-diamine, N,N'-bis[7-(9H-carbazol-9-yl)-9,9-dimethyl-9H-fluoren-2-yl]-N,N'-bis[4-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



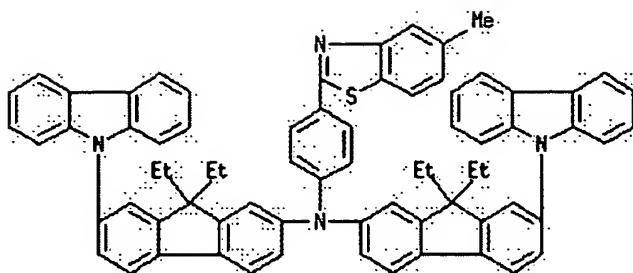
L10 ANSWER 13 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 334698-20-3P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (aryl amine contg. heterocyclic rings for org. electroluminescent device)

RN 334698-20-3 CA

CN 9H-Fluoren-2-amine, 7-(9H-carbazol-9-yl)-N-[7-(9H-carbazol-9-yl)-9,9-diethyl-9H-fluoren-2-yl]-9,9-diethyl-N-[4-(5-methyl-2-benzothiazolyl)phenyl]- (9CI) (CA INDEX NAME)



L10 ANSWER 14 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 132385-99-0 132386-56-2 132386-69-7

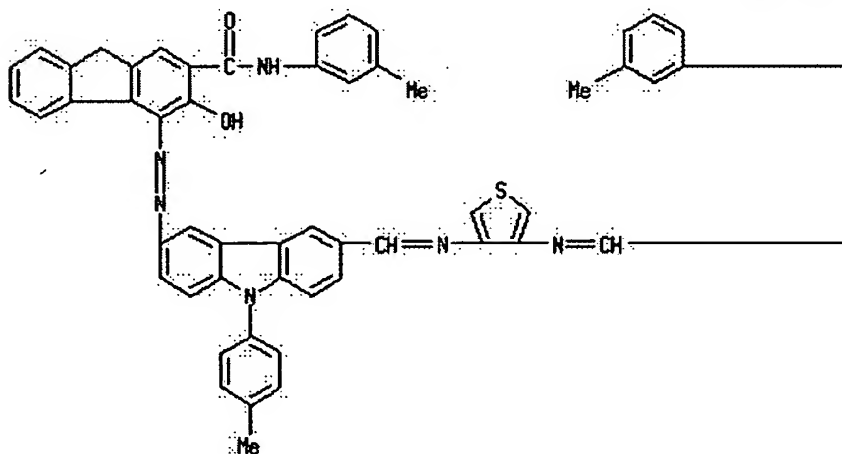
RL: USES (Uses)

(electrophotog. photoconductors contg.)

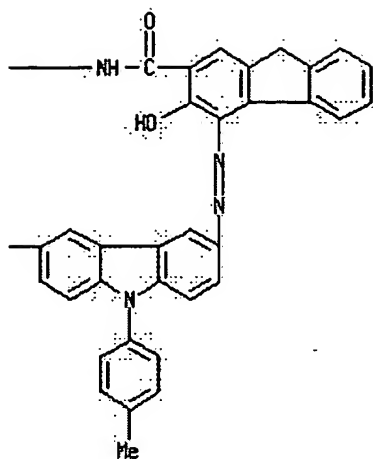
RN 132385-99-0 CA

CN 9H-Fluorene-2-carboxamide, 4,4'-[3,4-thiophenediylbis[nitrilomethylidene[9-(4-methylphenyl)-9H-carbazole-6,3-diyl]azo]]bis[3-hydroxy-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



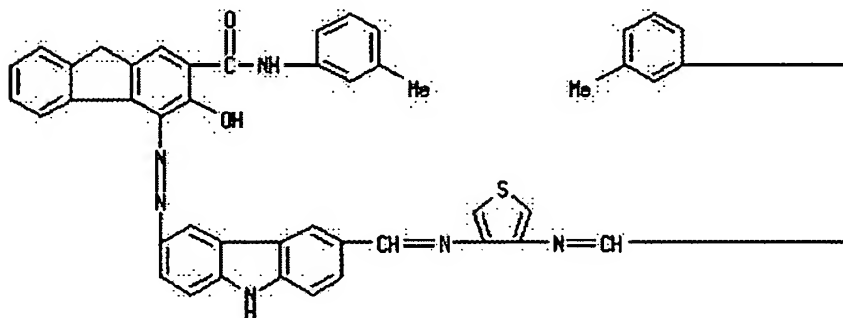
PAGE 1-B



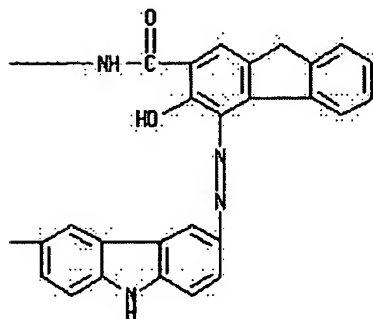
RN 132386-56-2 CA

CN 9H-Fluorene-2-carboxamide, 4,4'-[3,4-thiophenediylbis(nitrilomethylidyne-9H-carbazole-6,3-diylazo)]bis[3-hydroxy-N-(3-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



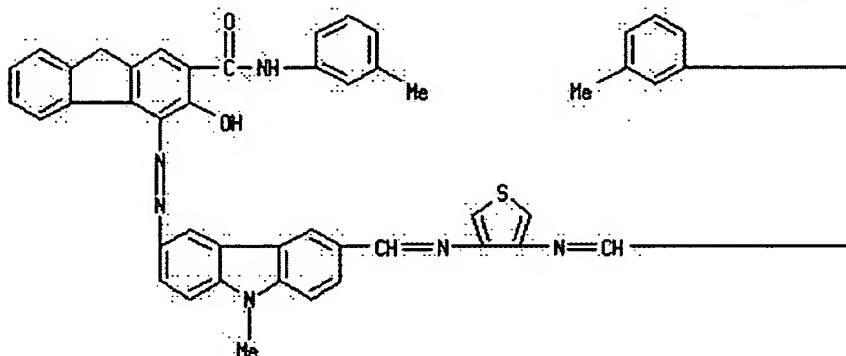
RN 132386-69-7 CA

CN 9H-Fluorene-2-carboxamide, 4,4'-[3,4-thiophenediylbis(nitrilomethylidyne-9-

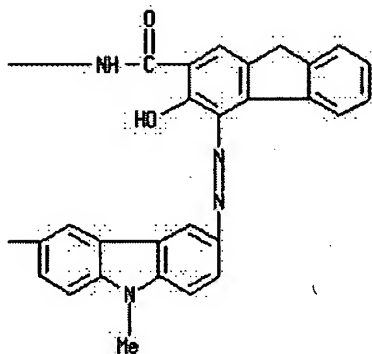


methyl-9H-carbazole-6,3-diyl)azo]]bis[3-hydroxy-N-(3-methylphenyl)- (9CI)  
(CA INDEX NAME)

PAGE 1-A



PAGE 1-B

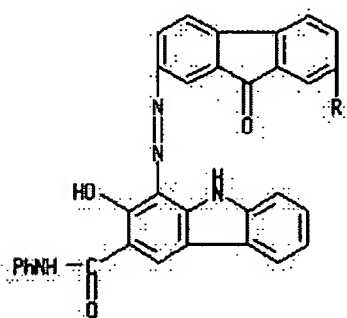
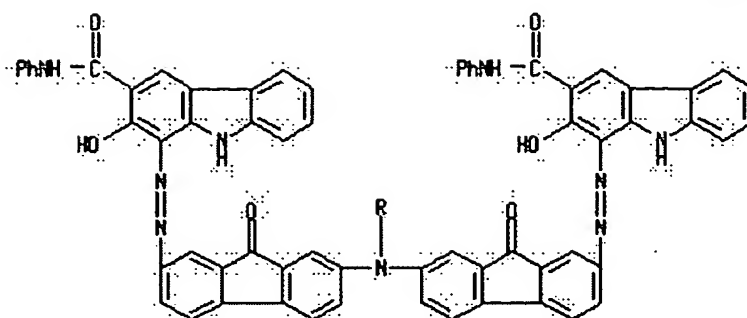


L10 ANSWER 15 OF 18 CA COPYRIGHT 2005 ACS on STN  
IT 126358-77-8

RL: TEM (Technical or engineered material use); USES (Uses)  
(charge-generating agent, for electrophotog. photoconductor, for  
visible ray, with durability)

RN 126358-77-8 CA

CN 9H-Carbazole-3-carboxamide, 1,1',1''-[nitrilotris[(9-oxo-9H-fluorene-7,2-  
diyl)azo]]tris[2-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)



L10 ANSWER 16 OF 18 CA COPYRIGHT 2005 ACS on STN

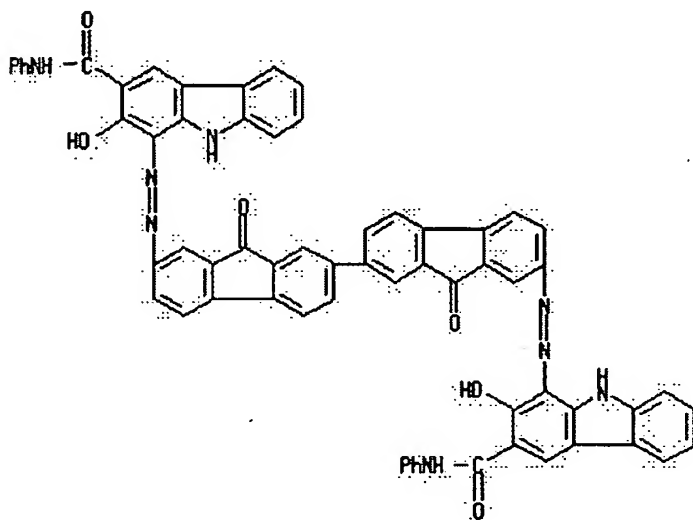
IT 118524-39-3

RL: USES (Uses)

(disazo pigment, electrophotog. photoreceptor contg.)

RN 118524-39-3 CA

CN 9H-Carbazole-3-carboxamide, 1,1'-[(9,9'-dioxo[2,2'-bi-9H-fluorene]-7,7'-diyl)bis(azo)]bis[2-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)



L10 ANSWER 17 OF 18 CA COPYRIGHT 2005 ACS on STN

IT 116537-14-5

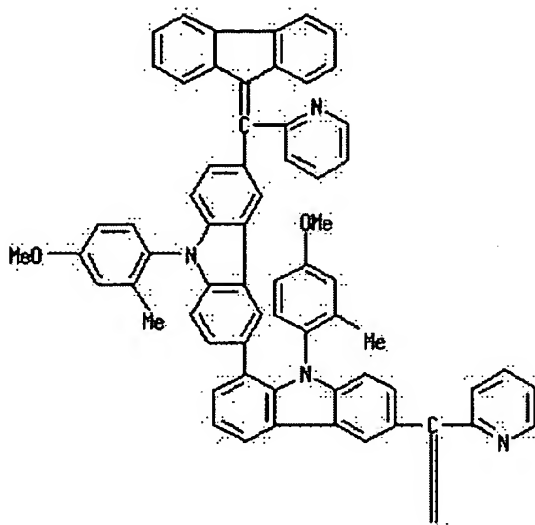
RL: USES (Uses)

(charge-transport substance, laminated electrophotog. photoreceptor contg.)

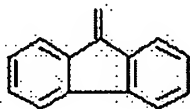
RN 116537-14-5 CA

CN 1,3'-Bi-9H-carbazole, 6,6'-bis(9H-fluoren-9-ylidene-2-pyridinylmethyl)-9,9'-bis(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L10 ANSWER 18 OF 18 CA COPYRIGHT 2005 ACS on STN

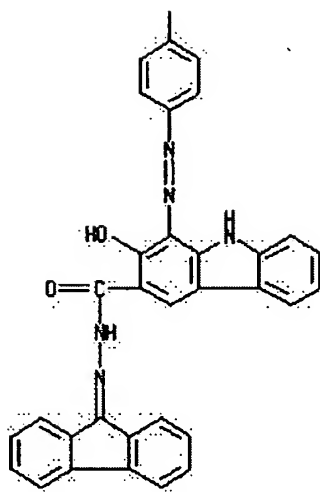
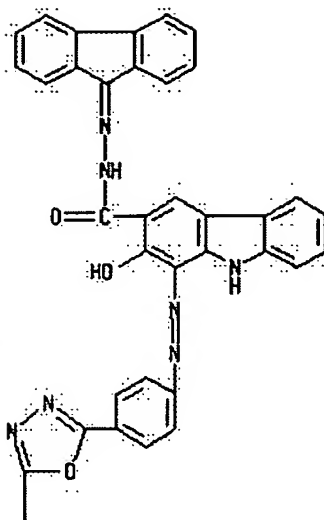
IT 100584-78-9

RL: TEM (Technical or engineered material use); USES (Uses)

(electrophotog. charge carrier-generating pigment)

RN 100584-78-9 CA

CN 9H-Carbazole-3-carboxylic acid, 1,1'-[1,3,4-oxadiazole-2,5-diylbis(4,1-phenyleneazo)]bis[2-hydroxy-, bis(9H-fluoren-9-ylidenehydrazide) (9CI) (CA INDEX NAME)



=> d fbib 11 14, fil uspatfull  
 'FIL' IS NOT A VALID FORMAT FOR FILE 'CA'  
 'USPATFULL' IS NOT A VALID FORMAT FOR FILE 'CA'

The following are valid formats:

ABS ----- GI and AB  
 ALL ----- BIB, AB, IND, RE  
 APPS ----- AI, PRAI  
 BIB ----- AN, plus Bibliographic Data and PI table (default)  
 CAN ----- List of CA abstract numbers without answer numbers  
 CBIB ----- AN, plus Compressed Bibliographic Data  
 DALL ----- ALL, delimited (end of each field identified)  
 DMAX ----- MAX, delimited for post-processing

## STN Columbus

FAM ----- AN, PI and PRAI in table, plus Patent Family data  
 FBIB ----- AN, BIB, plus Patent FAM  
 IND ----- Indexing data  
 IPC ----- International Patent Classifications  
 MAX ----- ALL, plus Patent FAM, RE  
 PATS ----- PI, SO  
 SAM ----- CC, SX, TI, ST, IT  
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
 SCAN must be entered on the same line as the DISPLAY,  
 e.g., D SCAN or DISPLAY SCAN)  
 STD ----- BIB, IPC, and NCL  
  
 IABS ----- ABS, indented with text labels  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IMAX ----- MAX, indented with text labels  
 ISTD ----- STD, indented with text labels  
  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
 containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
 its structure diagram  
 HITSEQ ----- HIT RN, its text modification, its CA index name, its  
 structure diagram, plus NTE and SEQ fields  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
 its structure diagram  
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
 structure diagram, plus NTE and SEQ fields  
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 OCC ----- Number of occurrence of hit term and field in which it occurs

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=> d fbib 11 14

L10 ANSWER 11 OF 18 CA COPYRIGHT 2005 ACS on STN

### Full Text

AN 138:278348 CA  
 TI Electrophotographic organo photoreceptors  
 IN Kam, Law W.; Nusrallah, Jubran; Zbigniew, Tokarski  
 PA Samsung Electronics Co. Ltd., S. Korea  
 SO Eur. Pat. Appl., 29 pp.  
 CODEN: EPXXDW  
 DT Patent

## STN Columbus

LA English

FAN.CNT 1

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## STN Columbus

US 2001-329275P P 20011012  
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 US 2002-256629 A3 20020927

OS MARPAT 138:278348

L10 ANSWER 14 OF 18 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 114:111891 CA  
 TI Electrophotographic photoconductors  
 IN Kuroda, Masami; Hattori, Yoshimasa; Kosho, Noboru  
 PA Fuji Electric Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 02208659	A2	19900820	JP 1989-29232	19890208
				JP 1989-29232	19890208

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COST IN U.S. DOLLARS

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ENTRY

TOTAL  
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FULL ESTIMATED COST

44.96 82.20

FILE 'USPATFULL' ENTERED AT 08:51:03 ON 19 APR 2005

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 19 Apr 2005 (20050419/PD)

FILE LAST UPDATED: 19 Apr 2005 (20050419/ED)

HIGHEST GRANTED PATENT NUMBER: US6883176

HIGHEST APPLICATION PUBLICATION NUMBER: US2005081271

CA INDEXING IS CURRENT THROUGH 19 Apr 2005 (20050419/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 19 Apr 2005 (20050419/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

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 >>> publications, starting in 2001, for the inventions covered in <<<  
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 >>> published document but also a list of any subsequent <<<  
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 >>> publication date for all the US publications for an invention <<<  
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 >>> records and may be searched in standard search fields, e.g., /PN, <<<  
 >>> /PK, etc. <<<

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 >>> classifications, or claims, that may potentially change from <<<  
 >>> the earliest to the latest publication. <<<

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# STN Columbus

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E US-20050069798/PN

FILE 'STNGUIDE' ENTERED AT 08:31:02 ON 19 APR 2005

FILE 'REGISTRY' ENTERED AT 08:33:13 ON 19 APR 2005

E 86-74-8  
L1 1 S E3  
E 86-73-7  
L2 1 S E3  
L3 3603 S 2 1839.22/RID  
L4 5376 S 2 1839.6/RID  
L5 4411 S >=2 1839.22/RID  
L6 6677 S >=2 1839.6/RID  
L7 37 S L5 AND L6  
L8 34 S L7 NOT PMS/CI

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L9 31 S L3 AND L4 NOT PMS/CI

FILE 'CA' ENTERED AT 08:46:04 ON 19 APR 2005  
L10 18 S L8

FILE 'USPATFULL' ENTERED AT 08:51:03 ON 19 APR 2005

=> s 18

L11 3 L8

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L11 ANSWER 1 OF 3 USPATFULL on STN

## Full Text

AN 2005:68778 USPATFULL  
TI Electrophotographic organophotoreceptors with novel charge transport materials  
IN Law, Kam W., Woodbury, MN, UNITED STATES  
Jubran, Nusrallah, St. Paul, MN, UNITED STATES  
Tokarski, Zbigniew, Woodbury, MN, UNITED STATES  
PA Samsung Electronics Co., Ltd. (U.S. corporation)  
PI US 2005058917 A1 20050317  
AI US 2004-982320 A1 20041104 (10)  
RLI Division of Ser. No. US 2002-256629, filed on 27 Sep 2002, PENDING  
PRAI US 2001-325714P 20010928 (60)  
US 2001-325735P 20010928 (60)  
US 2001-325717P 20010928 (60)  
US 2001-325734P 20010928 (60)  
US 2001-329275P 20011012 (60)  
US 2001-329121P 20011012 (60)  
US 2001-330377P 20011018 (60)  
US 2002-347051P 20020108 (60)  
DT Utility  
FS APPLICATION  
LREP Patterson, Thuente, Skaar Christensen, P.A., 4800 IDS Center, 80 South  
8th Street, Minneapolis, MN, 55402-2100  
CLMN Number of Claims: 13



ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1129

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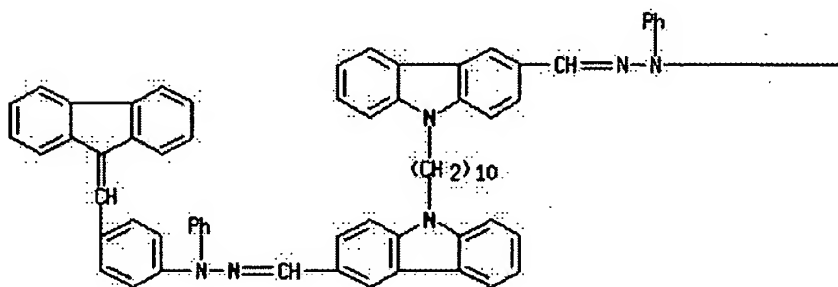
IT 503543-01-9P 503543-02-0P

(charge transport compd. for electrophotog. organo photoreceptors)

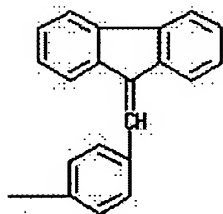
RN 503543-01-9 USPATFULL

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,10-decanediyl)bis-,  
bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA  
INDEX NAME)

PAGE 1-A

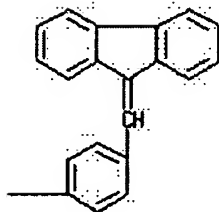
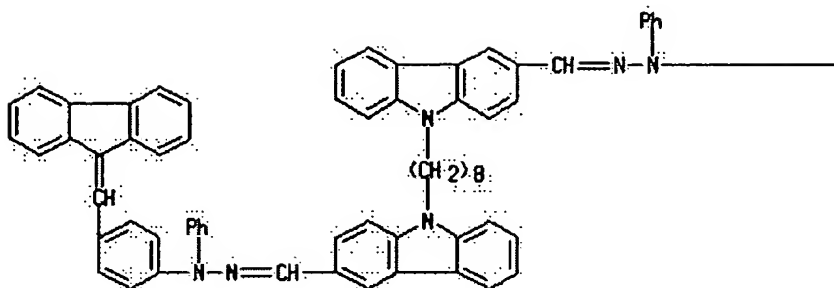


PAGE 1-B



RN 503543-02-0 USPATFULL

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,8-octanediyl)bis-,  
bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA  
INDEX NAME)



L11 ANSWER 2 OF 3 USPATFULL on STN

Full Text

AN 2004:109985 USPATFULL

TI Two-photon responsive chromophores containing electron accepting core units

IN Kannan, Ramamurthi, Cincinnati, OH, United States

Tan, Loon-Seng, Centerville, OH, United States

Reinhardt, Bruce A., late of Tipp City, OH, United States deceased

Reinhardt, Erin D., Las Vegas, NV, United States legal representative

Reinhardt, Jason A., Las Vegas, NV, United States legal representative

Vaia, Richard A., Beavercreek, OH, United States

PA The United States of America as represented by the Secretary of the Air Force, Washington, DC, United States (U.S. government)

PI US 6730793 B1 20040504

AI US 2002-171566 20020613 (10)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Gerstl, Robert

LREP Bricker, Charles E., Kundert, Thomas L.

CLMN Number of Claims: 5

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 351

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 685531-19-5P

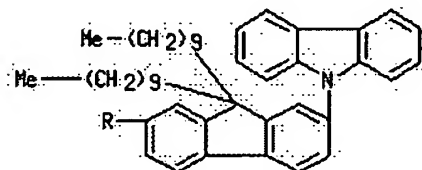
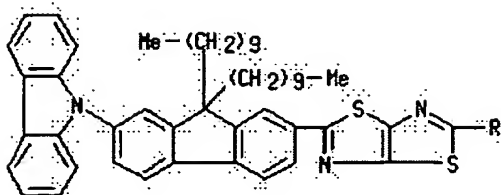
(chromophores with high two-photon absorptions)

RN 685531-19-5 USPATFULL

CN 9H-Carbazole, 9,9'-[thiazolo[5,4-d]thiazole-2,5-diylbis(9,9-didecyl-9H-

# STN Columbus

fluoren-7,2-diyl]]bis- (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 3 USPATFULL on STN

## Full Text

AN 2003:165788 USPATFULL

TI Electrophotographic organophotoreceptors with novel charge transport materials

IN Law, Kam W., Woodbury, MN, UNITED STATES

Jubran, Nusrallah, St. Paul, MN, UNITED STATES

Tokarski, Zbigniew, Woodbury, MN, UNITED STATES

PA SAMSUNG Electronics Co. Ltd. (U.S. corporation)

PI US 2003113643 A1 20030619

AI US 2002-256629 A1 20020927 (10)

PRAI US 2001-325714P 20010928 (60)

US 2001-325735P 20010928 (60)

US 2001-325717P 20010928 (60)

US 2001-325734P 20010928 (60)

US 2001-329275P 20011012 (60)

US 2001-329121P 20011012 (60)

US 2001-330377P 20011018 (60)

US 2002-347051P 20020108 (60)

DT Utility

FS APPLICATION

LREP Mark A. Litman Associates, P.A., York Business Center, Suite 205, 3209 West 76th St., Edina, MN, 55435

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1183

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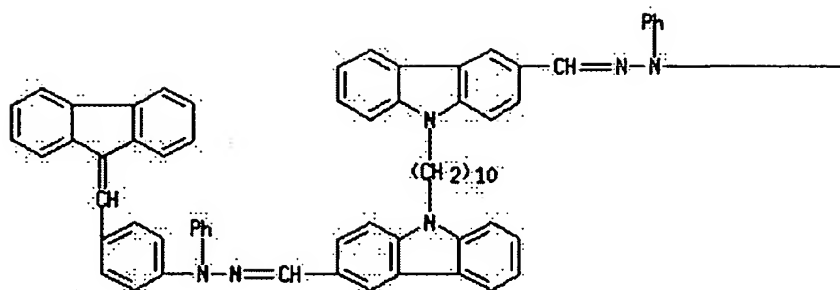
IT 503543-01-9P 503543-02-0P

(charge transport compd. for electrophotog. organo photoreceptors)

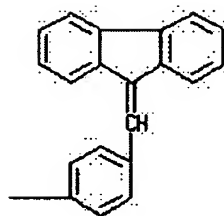
RN 503543-01-9 USPATFULL

CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,10-decanediyl)bis-, bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA INDEX NAME)

PAGE 1-A

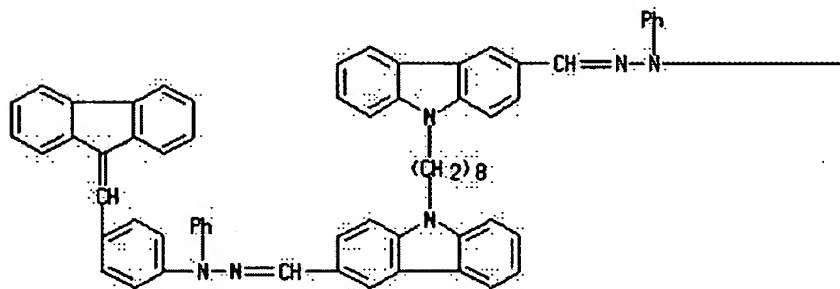


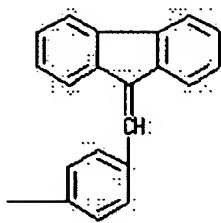
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RN 503543-02-0 USPATFULL  
 CN 9H-Carbazole-3-carboxaldehyde, 9,9'-(1,8-octanediyl)bis-,  
 bis[[4-(9H-fluoren-9-ylidenemethyl)phenyl]phenylhydrazone] (9CI) (CA  
 INDEX NAME)

PAGE 1-A





=> fil stnguide

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 15, 2005 (20050415/UP).

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